# Northfork GECA Foaming Handwash

ACCO Brands Australia Pty Ltd

Version No: 1.7 Safety Data Sheet according to WHS and ADG requirements

Issue Date: 19/04/2021 S.GHS.AUS.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### **Product Identifier**

Product name	Northfork GECA Foaming Handwash	
Synonyms	Not Available	
Other means of identification	0.4ml Cartridge - 638049600	0.8ml - 638049500

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Hand washing
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#### Details of the supplier of the safety data sheet

Registered company name	ACCO Brands Australia Pty Ltd
Address	17-19 Waterloo Street, Queanbeyan NSW 2620 Australia
Telephone	+61-2-96740900
Fax	+61-2-96740910
Website	www.accobrands.com.au
Email	sds.anz@acco.com

#### Emergency telephone number

Accesion	tion / Organization	Deigene Information Line
Associat	tion / Organisation	Poisons Information Line
Em	ergency telephone numbers	13 11 26
Other em	ergency telephone numbers	Not Available

## **SECTION 2 HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

## NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Not Applicable

#### Label elements

Hazard pictogram(s)	Not Applicable
SIGNAL WORD	NOT APPLICABLE

#### Hazard statement(s)

Not Applicable

## Precautionary statement(s) Prevention

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.

### Precautionary statement(s) Response

Not Applicable

## Precautionary statement(s) Storage

Not Applicable

## Precautionary statement(s) Disposal

Not Applicable

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

See section below for composition of Mixtures

## Mixtures

CAS No	%[weight]	Name
32612-48-9	<10	ammonium lauryl ether sulfate
102-77-2	<10	2-(morpholinothio)benzothiazole
56-81-5	<10	glycerol
13197-76-7	<10	lauryl hydroxysultaine

## SECTION 4 FIRST AID MEASURES

## Description of first aid measures

Eye Contact	If this product comes in contact with eyes:  Wash out immediately with water.  If irritation continues, seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: <ul> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

## Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5 FIREFIGHTING MEASURES**

## Extinguishing media

There is no restriction on the type of extinguisher which may be used.

Use extinguishing media suitable for surrounding area.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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#### Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>May emit corrosive fumes.</li> </ul>
HAZCHEM	Not Applicable

## SECTION 6 ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

See section 8

## **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

<ul> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
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	Moderate hazard.
	<ul> <li>Clear area of personnel and move upwind.</li> </ul>
	Alert Fire Brigade and tell them location and nature of hazard.
	<ul> <li>Wear breathing apparatus plus protective gloves.</li> </ul>
	Prevent, by any means available, spillage from entering drains or water course.
	▶ Stop leak if safe to do so.
Major Spills	Contain spill with sand, earth or vermiculite.
	<ul> <li>Collect recoverable product into labelled containers for recycling.</li> </ul>
	Neutralise/decontaminate residue (see Section 13 for specific agent).
	<ul> <li>Collect solid residues and seal in labelled drums for disposal.</li> </ul>
	Wash area and prevent runoff into drains.
	After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.
	If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 HANDLING AND STORAGE

## Precautions for safe handling

Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with moisture.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with scap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>
Other information	

## Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	None known

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	glycerol	Glycerin mist	10 mg/m3	Not Available	Not Available	Not Available

## EMERGENCY LIMITS

Ingredient	Material name	TEEL-1		TEEL-2	TEEL-3
glycerol	Glycerine (mist); (Glycerol; Glycerin)	45 mg/m3		860 mg/m3	2,500 mg/m3
Ingredient Original IDLH			Revised IDLH		
ammonium lauryl ether sulfate	Not Available		Not Available		
2-(morpholinothio)benzothiazole	Not Available Not Available				
glycerol	Not Available	Not Available			
lauryl hydroxysultaine	Not Available		Not Available		

## Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ven the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Corr adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workpla "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contar	strategically "adds" and tilation system must match rect fit is essential to obtain ace possess varying
	Type of Contaminant:	Air Speed:

	solvent, vapours, degreasing etc., evaporating from tank (in still air)		0.25-0.5 m/s (50-100 f/min)			
	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)					
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)					
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).					
	Within each range the appropriate value depends on:					
	Lower end of the range	Upper end of the range				
	1: Room air currents minimal or favourable to capture         1: Disturbing room air currents					
	2: Contaminants of low toxicity or of nuisance value only 2: Contaminants of high toxicity					
	3: Intermittent, low production.	3: High production, heavy use				
	4: Large hood or large air mass in motion	4: Small hood - local control only				
Personal protection	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple ex of distance from the extraction point (in simple cases). Therefore the air speed at the extraction poind distance from the contaminating source. The air velocity at the extraction fan, for example, should be solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considera apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when the extraction point (in the extraction point) or more when the extraction point is the extraction point of the extraction point is the extraction point.	nt should be adjusted, accordingly, a e a minimum of 1-2 m/s (200-400 f/r ations, producing performance defici	after reference to nin.) for extraction of its within the extraction			
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be remove at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSI Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> </ul>					
Skin protection	See Hand protection below					
	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, wh all possible skin contact.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and des The selection of suitable gloves does not only depend on the material, but also on further marks of qu the chemical is a preparation of several substances, the resistance of the glove material can not be to the application.</li> <li>The exact break through time for substances has to be obtained from the manufacturer of the protect choice.</li> <li>Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. thoroughly. Application of a non-perfumed moisturizer is recommended.</li> <li>Suitability and durability of glove type is dependent on usage. Important factors in the selection of gle</li> <li>frequency and duration of contact,</li> <li>chemical resistance of glove material,</li> </ul>	stroyed. uality which vary from manufacturer calculated in advance and has there tive gloves and has to be observed v . After using gloves, hands should be	to manufacturer. Wher fore to be checked pric			
Hands/feet protection	<ul> <li>glove thickness and</li> <li>dexterity</li> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or natio</li> <li>When prolonged or frequently repeated contact may occur, a glove with a protection minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended</li> <li>When only brief contact is expected, a glove with a protection class of 3 or higher i EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.</li> <li>Some glove polymer types are less affected by movement and this should be taker</li> <li>Contaminated gloves should be replaced.</li> <li>For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended It should be dependent on the exact composition of the glove material. Therefore, glove selection sh requirements and knowledge of breakthrough times.</li> <li>Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove malways be taken into account to ensure selection of the most appropriate glove for the task.</li> <li>Note: Depending on the activity being conducted, gloves of varying thickness may be required for sg</li> <li>Thinner gloves (down to 0.1 mm or less) may be required where a high degree of r likely to give short duration protection and would normally be just for single use application puncture potential</li> </ul>	on class of 5 or higher (breakthroug id. (breakthrough time greater than 60 in into account when considering glow be to a specific chemical, as the perm hould also be based on consideratio odel. Therefore, the manufacturers' is pecific tasks. For example: manual dexterity is needed. However ons, then disposed of. al (as well as a chemical) risk i.e. wh	minutes according to ves for long-term use. eation efficiency of the n of the task technical data should er, these gloves are online there there is abrasion of			
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Thermal hazards Not A

Skin cleansing cream.
Eye wash unit.

Not Available

#### Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

GECA Foaming Handwash

Material	CPI
NATURAL RUBBER	A
NATURAL+NEOPRENE	А
NITRILE	А

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS	-	A-PAPR-AUS / Class 1
up to 50 x ES	-	A-AUS / Class 1	-
up to 100 x ES	-	A-2	A-PAPR-2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Appearance	Text		
Physical state	Liquid	Relative density (Water = 1)	1.00-1.05
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	6-8	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

#### SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7			
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.			
Possibility of hazardous reactions	See section 7			
Conditions to avoid	See section 7			
Incompatible materials	See section 7			
Hazardous decomposition products	See section 5			

## SECTION 11 TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

Inhaled

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).

Ingestion	Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating				
Skin Contact	animal or human evidence. Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.				
		ne evidence to suggest that this material can cause e liquid is not thought to be an irritant (as classified b			
Eye		r conjunctival redness (as with windburn).	tion reaction in come n	arcone compared to the	concret population
Chronic	Skill contac	t with the material is more likely to cause a sensitisat	uon reaction in some p	Jersons compared to the	
GECA Foaming Handwash		(ICITY	IF	RRITATION	
GLOAT Daming Handw		Available	N	lot Available	
	TO				IDDITATION
ammonium lauryl ether sul	fate	(ICITY (rat) LD50: 630 mg/kgd <sup>[2]</sup>			IRRITATION Not Available
		(iai) 2000. 000 mg/kga			
	тох	(ICITY		IRRITATION	
	Den	mal (rabbit) LD50: >7940 mg/kg*g <sup>[2]</sup>		Eye (rabbit): (FHSA	) 5.0/110.0 *
2-(morpholinothio)benzothia	Ora	(rat) LD50: >8200 mg/kg** <sup>[2]</sup>		Eye (rabbit): 100 mg	/24h-moderate
				non-irritating Skin (rabbit): (FHSA	\) 0.0/8.0 *
				slight irritation	
glyc		(ICITY			IRRITATION
	Ora	(rat) LD50: 12600 mg/kg <sup>[2]</sup>		Not Available	
	TO	(ICITY	15	RRITATION	
lauryl hydroxysult	aine	Available			
Legend:		tained from Europe ECHA Registered Substances - om RTECS - Register of Toxic Effect of chemical Su		le obtained from manufa	cturer's SDS. Unless otherwise specified data
AMMONIUM LAURYL ETHE	R SULFATE	Alcohol ethoxysulfates (AES) are of low acute tox The material may produce severe irritation to the produce conjunctivitis.			
2-(MORPHOLINOTHIO)BENZ(	DTHIAZOLE	The following information refers to contact allerg Contact allergies quickly manifest themselves as eczema involves a cell-mediated (T lymphocytes involve antibody-mediated immune reactions. Th distribution of the substance and the opportunitie distributed can be a more important allergen that clinical point of view, substances are noteworthy The material may produce moderate eye irritation conjunctivitis. Skin and eye irritation effects may be mild. Allerg potent skin sensitiser and similar reactions with of lung, liver, kidney, stomach and intestines may be 2-mercaptobenzothiazole (MBT) may have some Members of this category pose a low concern for possibly an allergic skin reaction may occur, but of moist conditions. for morpholine: There have been no reports on incidents of acute population. The phenomenon known as blue visi described in reports of occupational exposure to that the number of chromosomal aberrations in th concentrations of 0.54-0.93 mg/m3 did not differ	s contact eczema, more s) immune reaction of the esignificance of the c es for contact with it are n one with stronger sea if they produce an alle n leading to inflammati gic skin reaction is pos- other rubber chemical: a affected. There was re a potential to cause cause r acute toxicity. Expose only in sensitive individe e poisoning or on the e- on or glaucopsia, as we morpholine; however, ne lymphocytes of perip	re rarely as urticaria or Q the delayed type. Other contact allergen is not sin e equally important. A we ensitising potential with we ergic test reaction in more ion. Repeated or prolong ssible in susceptible pers is can occur. Following o no conclusive evidence of no atmospheric concent pheral blood of workers e	uincke's oedema. The pathogenesis of contact allergic skin reactions, e.g. contact urticaria, nply determined by its sensitisation potential: the eakly sensitising substance which is widely hich few individuals come into contact. From a than 1% of the persons tested. The exposure to irritants may produce sons. There is a low concern for mutations. It is a ral administration, the central nervous system, if effects on reproduction although tact with rubber or latex articles. Skin irritation, or ged and repeated exposure, especially under errm exposure to morpholine by the general skin and respiratory tract irritation, have been rations of morpholine were given. It was reported exposed for 3-10 years to morpholine at

Morpholine is absorbed after oral, dermal and inhalation exposure. In the rat following oral and intravenous administration, morpholine is rapidly distributed, the highest concentrations being found in the intestine and muscle. In the rabbit, following intravenous and inhalation exposure, morpholine is preferentially distributed to the kidneys, lower concentrations reaching the lung, liver and blood. Specific developmental abnormalities (musculoskeletal system) recorded.

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder that

		occurs as a result of exposure due to high concentrations of irritating substance (o ceases. The disorder is characterized by difficulty breathing, cough and mucus pro At very high concentrations, evidence predicts that glycerol may cause tremor, irrita is of low toxicity. There is no significant evidence to suggest that it causes cancer, s	oduction. ation of the skin, eyes, digestive tract and airway. Otherwise it
LAURYL HYDROXYSULTAINE		Amphoteric surfactants are easily absorbed in the gut and partly excreted unchange body. Concentrated betaines are expected to irritate the skin and eyes, but dilute so No evidence of delayed contact hypersensitivity was found in animal testing. Tests f	lutions only irritate the eyes.
		No significant acute toxicological data identified in literature search.	
Acute Toxicity	$\bigcirc$	Carcinogenicity	0
Skin Irritation/Corrosion	$\odot$	Reproductivity	0

	0		0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	$\otimes$	STOT - Repeated Exposure	$\otimes$
Mutagenicity	$\odot$	Aspiration Hazard	$\odot$
		Legend: ¥	- Data available but does not fill the criteria for classification

✓ − /

Data available to make classification

S - Data Not Available to make classification

#### **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity ENDPOINT TEST DURATION (HR) SPECIES VALUE SOURCE **GECA Foaming Handwash** Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable ENDPOINT TEST DURATION (HR) SPECIES VALUE SOURCE ammonium lauryl ether sulfate Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable ENDPOINT TEST DURATION (HR) SPECIES SOURCE VALUE LC50 96 Fish 0.31mg/L 2 EC50 48 Crustacea =4mg/L 1 2-(morpholinothio)benzothiazole EC50 96 923.219mg/L 3 Algae or other aquatic plants EC50 48 Crustacea =4.5mg/L 1 NOEC 2136 0.041mg/L 2 Fish ENDPOINT **TEST DURATION (HR)** SPECIES VALUE SOURCE >11mg/L LC50 96 Fish 2 glycerol EC50 96 Algae or other aquatic plants 77712.039mg/L 3 EC0 24 Crustacea >500mg/L 1 ENDPOINT **TEST DURATION (HR)** SPECIES VALUE SOURCE lauryl hydroxysultaine Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 Legend:

(QSAR) - Aquatic Toxicity Data 2. Europe ECHA Registered Substances - Ecoloxicological Information - Aquatic Toxicity S. Errwin Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
2-(morpholinothio)benzothiazole	HIGH	HIGH
glycerol	LOW	LOW

#### Bioaccumulative potential

Ingredient	Bioaccumulation	
2-(morpholinothio)benzothiazole	LOW (LogKOW = 1.0246)	
glycerol	LOW (LogKOW = -1.76)	

## Mobility in soil

Ingredient	Mobility

2-(morpholinothio)benzothiazole	LOW (KOC = 2088)
glycerol	HIGH (KOC = 1)

## SECTION 13 DISPOSAL CONSIDERATIONS

Containers may still present a chemical hazard/ danger when empty.     Return to supplier for reuse/ recycling if possible.	
<ul> <li>Otherwise:</li> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in the areas, certain wastes must be tracked.</li> <li>A Hierarchy of Controls seems to be common - the user should investigate:         <ul> <li>Reduction</li> <li>Reuse</li> <li>Recycling</li> <li>Disposal (if all else fails)</li> <li>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contam possible to reclaim the product by filtration, distillation or some other means. Shell file considerations should also be applied in making decision Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sever may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible.</li> <li>Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or can be identified.</li> <li>Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed app admixture with suitable combusti</li></ul></li></ul>	eir area. In some inated, it may be ns of this type. or disposal facility

## **SECTION 14 TRANSPORT INFORMATION**

#### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

## SECTION 15 REGULATORY INFORMATION

#### Safety, health and environmental regulations / legislation specific for the substance or mixture

AMMONIUM LAURYL ETHER SULFATE(32612-48-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS		
Australia Hazardous Substances Information System - Consolidated Lists Australia I		Australia Inventory of Chemical Substances (AICS)
2-(MORPHOLINOTHIO)BENZ	OTHIAZOLE(102-77-2) IS FOUND ON THE FOLLOWING RE	GULATORY LISTS
,	s Information System - Consolidated Lists	Australia Inventory of Chemical Substances (AICS)
	ID ON THE FOLLOWING REGULATORY LISTS	
,	ID ON THE FOLLOWING REGULATORT LISTS	
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)
LAURYL HYDROXYSULTAIN	E(13197-76-7) IS FOUND ON THE FOLLOWING REGULATOR	RY LISTS
Australia Hazardous Substances	s Information System - Consolidated Lists	
National Inventory	Status	
Australia - AICS	N (lauryl hydroxysultaine)	
Canada - DSL	Υ	
Canada - NDSL	N (glycerol; lauryl hydroxysultaine; 2-(morpholinothio)benzothiazole; ammonium lauryl ether sulfate)	
China - IECSC	Y	
Europe - EINEC / ELINCS / NLP	Y	
Japan - ENCS	N (glycerol; lauryl hydroxysultaine; 2-(morpholinothio)benzothia	azole; ammonium lauryl ether sulfate)
Korea - KECI	ea - KECI N (lauryl hydroxysultaine)	

New Zealand - NZIoC	Y
Philippines - PICCS	N (lauryl hydroxysultaine)
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

## **SECTION 16 OTHER INFORMATION**

#### Other information

#### Ingredients with multiple cas numbers

Name	CAS No
ammonium lauryl ether sulfate	32612-48-9, 67762-19-0
glycerol	56-81-5, 29796-42-7, 30049-52-6, 37228-54-9, 75398-78-6, 78630-16-7, 8013-25-0

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index This document is copyright.

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